

UTAH CTE SKILL CERTIFICATE PROGRAM

DESIGN & DRAFTING TECHNOLOGY

STUDENT PERFORMANCE EVALUATION

TEST #540

Student Name: _____

The performance evaluation is a required component of the Skill Certification process. Each student **must be evaluated** on the required performance standards. Performance standards may be completed and **evaluated anytime during the course**.

- Students should be aware of their progress throughout the course, so that they can concentrate on the objectives that need improvement.
- Students should be encouraged to repeat the objectives until they have performed at a minimum of a number 1 or 2 on the rating scale (moderately to highly competent level).
 - 1= highly competent Successfully demonstrated without supervision
 - 2= moderately competent Successfully demonstrated with limited supervision
 - 3= limited competence Demonstrated with close supervision
 - 4= not competent Demonstration requires direct instruction and supervision
- When a standard has been achieved at a minimum of 80% (moderately to highly competent level). "Y" (Y=YES) is recorded on the last line of that standard, on the performance evaluation sheet. If a student does not achieve a 1 or a 2 (moderately to highly competent level), then "N" (N=NO) is recorded on the last line of that standard.
- All performance standards **MUST** be completed and evaluated prior to the written test.
- The **teacher** will bubble in "A" on the answer sheet for item #81 for students who have achieved "Y" on **ALL** performance standards.
- The **teacher** will bubble in "B" on the answer sheet for item #81 for students who have **ONE or more "N's"** on the performance standards.
- The signed performance evaluation sheet(s) **MUST** be kept in the teachers' file for two years.
- A copy is also kept on file with the school's ATE Skill Certification testing coordinator for two years.

Students who achieve a 1 or a 2 (moderately to highly competent) on **ALL** performance standards and 80% on the written test will be issued an ATE Skill Certificate.

151301-01 Students will be able to understand professional drafting room procedures and safe practices.				
	1	2	3	4
	Pass the safety test with a score of 100%.			
	Identify drafting, related occupations, and related opportunities.			
	Demonstrate safe drafting practices.			
	Display a professional attitude toward the supervisor and colleagues.			
	Follow the institution's attendance policies.			

151301-02 The students will be able to use of drafting machine and tools				
	1	2	3	4
	Demonstrate the correct operation and maintenance of drafting machines.			
	Identify and demonstrate the use of a compass, French curve, circle template, etc. to draw circles and Arcs.			
	Identify and demonstrate the use of other drafting tools and equipment in producing a drawing.			

151301-03 The student will be able to understand and demonstrate sketching techniques.				
	1	2	3	4
	Construct horizontal, vertical, and inclined lines that are straight.			
	Construct arcs and circles to proportionate radius or diameter.			
	Demonstrate the use of the alphabet of lines.			
	Produce sketches with paper, pencil, and an eraser without the use of straight edges or templates.			
	Develop a drawing that is neat, clean, and smudge-free.			
	Produce a one-view sketch of an object using proportional relationships.			

151301-04 The student will be able to understand and demonstrate the use of vertical, upper case, and gothic lettering.				
	1	2	3	4
	Construct guidelines that are spaced and used according to ANSI standards.			
	Produce guidelines that are barely visible at arm's length.			
	Show that letters and numerals fit the guidelines.			
	Show that letters and numerals conform to the Gothic style.			
	Demonstrate that words and letters appear evenly spaced.			
	Construct letters dark enough to produce sharp, crisp, and clear reproduction.			
	Show that lettering is clean and smudge-free.			

151301-05 The student will be able to understand and demonstrate drawing layouts.				
	1	2	3	4
	Show that the drawing is clean and smudge-free.			
	Produce a drawing that is centered in the work area.			
	Produce a completed title block to a specified format.			

151301-06 The student will be able to understand and demonstrate how to complete a drawing using the alphabet of lines.				
	1	2	3	4
	Construct all lines to the recommended thickness.			
	Show that the correct line type was used.			
	Show that all lines are in conformity with standard requirements (hidden lines, center lines, dimension lines, and extension lines).			
	Demonstrate the correct use of leader lines.			

151301-07 The student will be able to develop drawings to specified scales.				1	2	3	4
	Demonstrate measuring lines with full graduations using full-scale.						
	Demonstrate measuring lines with full graduations using half-scale.						
	Demonstrate measuring lines with full graduations using quarter-scale.						

151301-08 The student will be able to understand how to reproduce a drawing.				1	2	3	4
	Produce a reproduction that has good contrast.						
	Produce a reproduction that has dark line density.						

151301-09 The student will be able to produce geometric shapes such as straight lines, geometric angles, plane figures, circles and arcs, and irregular geometric figures.				1	2	3	4
	Produce construction lines that are barely visible at arm’s length.						
	Drawing lines show the accurate use of the tools.						
	Configuration corners are sharp.						
	Configuration tangents are smooth.						
	Configuration solutions are labeled correctly.						
	Configuration solution shows construction procedure.						
	Configuration elements are measured accurately.						
	Demonstrate knowledge of geometric shapes.						

151301-10 The student will be able to develop a complete multi-view drawing.				1	2	3	4
	Demonstrate third angle projection.						
	Demonstrate the use of top, front, and right side views.						
	Show that all views are aligned.						
	Show that appropriate lines and planes are located on each view.						
	Construct all lines in accordance with standard procedures.						
	Construct all fillets, rounds, and runouts correctly.						
	Apply forty-five (45) degree angle projection lines when required.						

151301-11 The student will be able to apply standard dimensioning practices to a drawing.				1	2	3	4
	Understand dimensioning systems.						
	Demonstrate dimensioning rules.						
	Understand dimensioning fundamentals.						
	Demonstrate size and location dimensioning.						
	Understand the preferred dimensioning practices.						
	Demonstrate the use of notes for size features.						
	Understand and demonstrate tolerance dimensioning.						
	Understand the placement and use of general notes.						

The instructor must retain a copy of this Student Performance Evaluation for two years after the student has left the program.

Instructor Signature: _____ Date: _____

Student Signature: _____ Date : _____

School: _____